12”Disc Sander
Model: 51-200

RIKON POWER TOOLS

Owner’s Manual

Record the serial number and date of purchase in your manual for future reference.

Serial number: _____

Date of purchase: _____

For more information:

www.rikontools.com or info@rikontools.com

For Parts or Questions:

techsupport@rikontools.com or 877-884-5167

Part # 51-200M1

Operator Safety: Required Reading

IMPORTANT! Safety is the single most important consideration in the operation of this equipment. **The following instructions must be followed at all times.**

There are certain applications for which this tool was designed. We strongly recommend that this tool not be modified and/or used for any other application other than that for which it was designed. If you have any questions about its application, do not use the tool until you have contacted us and we have advised you.

General Safety Warnings

KNOW YOUR POWER TOOL. Read the owner's manual carefully. Learn the tool's applications, work capabilities, and its specific potential hazards.

⚠ DANGER	**ALWAYS GROUND ALL TOOLS.** If your tool is equipped with a three-pronged plug, you must plug it into a three-hole electric receptacle. If you use an adapter to accommodate a two-pronged receptacle, you must attach the adapter plug to a known ground. Never remove the third prong of the plug. **ALWAYS AVOID DANGEROUS ENVIRONMENTS.** Never use power tools in damp or wet locations. Keep your work area well lighted and clear of clutter.
⚠ DANGER	**ALWAYS REMOVE THE ADJUSTING KEYS AND WRENCHES FROM TOOLS AFTER USE.** Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on. **ALWAYS KEEP YOUR WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
⚠ DANGER	**ALWAYS KEEP VISITORS AWAY FROM RUNNING MACHINES.** All visitors should be kept a safe distance from the work area. **ALWAYS MAKE THE WORKSHOP CHILDPROOF.** **Childproof** with padlocks, master switches, or by removing starter keys.
⚠ DANGER	**NEVER OPERATE A TOOL WHILE UNDER THE INFLUENCE OF DRUGS, MEDICATION, OR ALCOHOL**.
⚠ DANGER	**ALWAYS WEAR PROPER APPAREL.** Never wear loose clothing or jewelry that might get caught in moving parts. Rubber-soled footwear is recommended for the best footing.
⚠ DANGER	**ALWAYS USE SAFETY GLASSES AND WEAR HEARING PROTECTION.** Also use a face or dust mask if the cutting operation is dusty.
⚠ DANGER	**NEVER OVERREACH.** Keep your proper footing and balance at all times.
⚠ DANGER	**NEVER STAND ON TOOLS.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.

⚠ DANGER **ALWAYS DISCONNECT TOOLS**.
Disconnect tools before servicing and when changing accessories such as blades, bits, and cutters.

ALWAYS AVOID ACCIDENTAL STARTING.
Make sure switch is in “OFF” position before plugging in cord.

NEVER LEAVE TOOLS RUNNING UNATTENDED.

⚠ DANGER **ALWAYS CHECK FOR DAMAGED PARTS.**

Before initial or continual use of the tool, a guard or other part that is damaged should be checked to assure that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other damaged parts should immediately be properly repaired or replaced.

Special Safety Rules For Disc Sanders

1. Do not operate this machine until you have read all of the following instructions.
2. Do not attempt to operate this machine until it is completely assembled.
3. Do not turn ON this machine if any pieces are missing.
4. If you are not familiar with the operation of the machine, obtain assistance from a qualified person.
5. It is highly recommended that this machine be firmly mounted to a flat and secure work surface or stand.
6. Always wear protective eyewear prior to operating this machine.
7. Do not operate this machine if you are under the influence of drugs and/or alcohol.
8. Remove all jewelry prior to operating this machine.
9. Do not wear any gloves while operating this machine.
10. Always make sure the power switch is in the OFF position prior to plugging in the machine.
11. Always make sure the power switch is in the OFF position when doing any assembly or setup operation.
12. Always wear a dust mask and use adequate dust collection and proper ventilation. Use of sanders can produce harmful particles while sanding certain types of woods.
13. The use of any accessories or attachments not recommended may cause injury to you and damage your machine.
14. This machine must be properly grounded.
15. Abrasive discs should be the recommended diameter of the manufacturer.
16. Always keep your face and hands clear of moving parts such as belts and pulleys.
17. Keep power supply cords free of moving parts of the sander. Damaged cords can result in electric shock.
18. Maintain a 1/16” clearance between the sanding disc and table.
19. Always support the workpiece with the table.
20. Remove material or debris from the work area. Keep work area neat and clean.
21. Keep these instructions for future reference.

SAVE THESE INSTRUCTIONS.
Refer to them often.

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Specifications

Disc Diameter	12”
Table Tilt	45° Down 45° Up
Positive Stops	-45°, -22.5°, 0°, 22.5°, 45°
Table Size	17-1/8” x 6-1/2”
Disc Speed	1720
Disc Brake	Manual
Motor	1/2HP
Volts	120V
Amps	6A
Net Weight	73 lbs

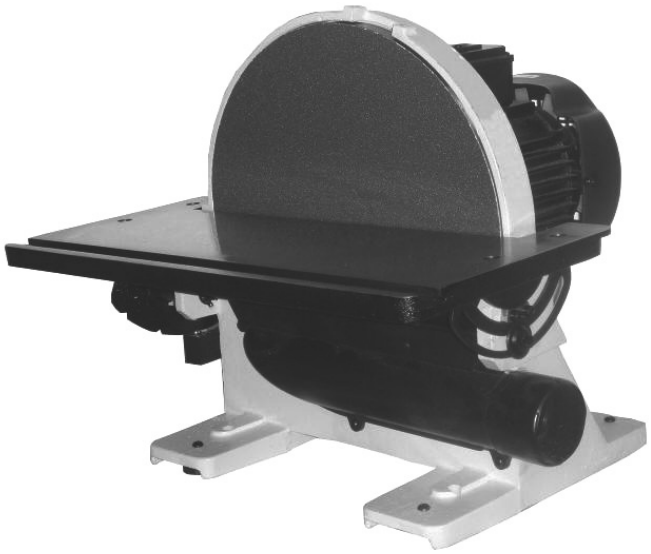
California Propsition 65 Warning

WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.Your risk from exposure to these chemicals varies, depending on how often you do this type of work. To reduce your exposure, work in a well-ventilated area and with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

For more detailed information about California Propostion 65 log onto rikontools.com.

Contents of Package

When unpacking, check to make sure the following parts are included. If any parts are missing or broken, please call RIKON Power Tools at the number on the cover of this manual as soon as possible.



A

B

E

A Sander
B Miter Gauge
C Disc Brake
D Two Mounting Screws for Disc Brake
E Dust Port

Assembly

Securing Sander Base Assembly to Workbench

The sander base must be secured before using. Attach a large C-Clamp to each side of the sander and the workbench. Or, permanently mount following the instructions below:

1. Place the sander on the workbench in its final operating location.

2. Place a pencil through the mounting holes of the sander base and mark the hole locations on workbench.

3. Remove sander and drill four 3/8” holes through the workbench.

4. Align sander base over holes and secure using four 5/16” screws (or larger) and hex nuts.
(See Fig. 01)

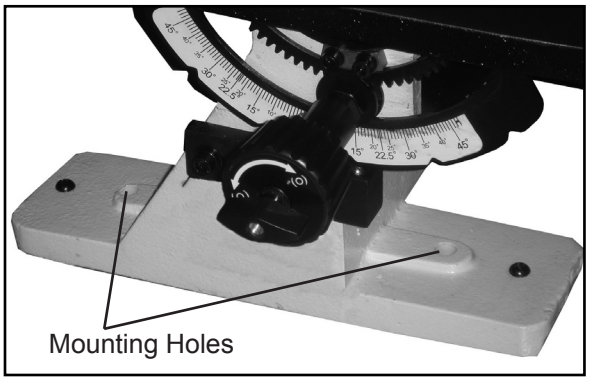


Fig. 01

Table Adjustments

The table stops have been pre-set at the factory. Follow the steps below if adjustments are needed.

1. Loosen lock knob (Fig. 02) and move table into the 90-degree position. Tighten lock knob and place a square against the table and sander disc. The square should rest flat against the table and the disc.

2. If adjustment is needed move the table so that it rests 90 degrees from the table, and loosen the two adjusting nuts (Fig. 03) on the stop bar and slide bar left or right for the proper adjustment. Once the proper adjustment is made tighten the two adjusting nuts on the stop bar.

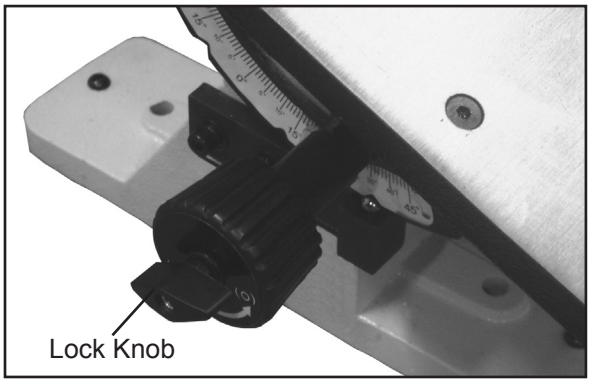


Fig. 02

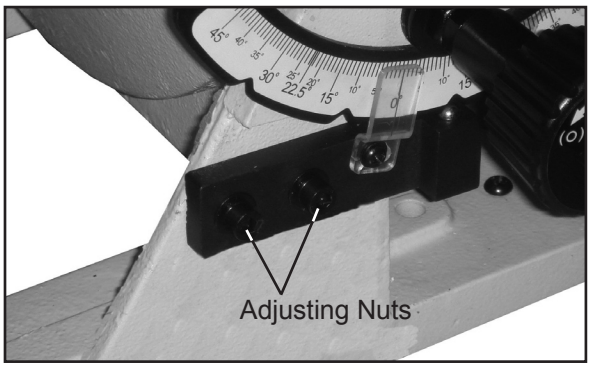


Fig. 03

Warning: To avoid jamming the workpiece or fingers between the table and sanding surface, the table edge should be a maximum of 1/16 inch from sanding surface.

3. Always maintain a gap of approximately 1/16" between the table edge, and disc. If adjustment is necessary loosen the four bolts (Fig. 04) and move the table into position.

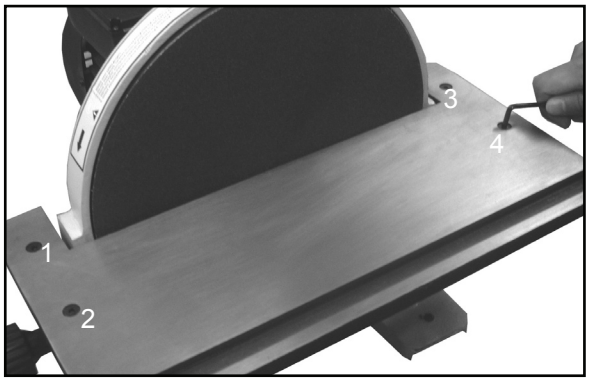


Fig. 04

4. Use a 1/16 inch drill bit as a spacer. Place the drill bit between the disc and the inside edge of the table. Hold the table against the 1/16 inch drill bit and tighten the four hex bolts. (See Fig. 05)

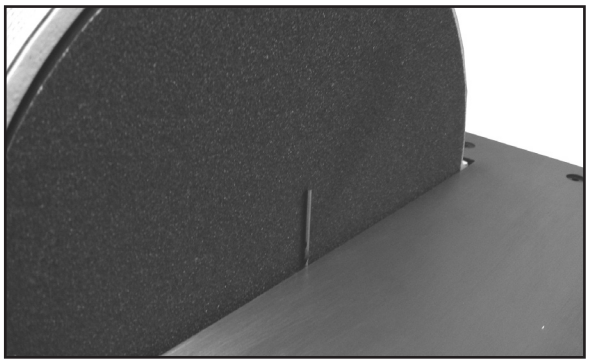


Fig. 05

Operation

On/Off Switch

The On/Off Locking Switch needs to have the switch key inserted before the switch can be used (key located in parts bag). This feature prevents unauthorized use of the sander. (See Fig. 06)

CAUTION: Never walk away from sander when machine is running. Always lock the switch in the Off position and unplug from the power supply when not in use.

Fig. 06

Disc Brake

Warning: Never apply the disc brake with the switch in the "ON" position. Damage to the brake or disc may occur.

This 12" Disc Sander is equipped with a manual disc brake which can be applied by pressing down on brake lever (Fig. 07), after the switch has been turned off.

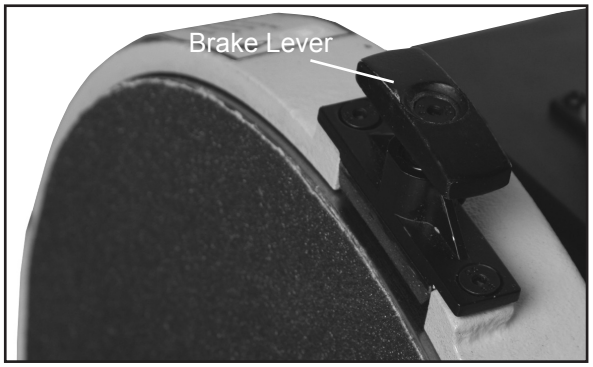


Fig. 07

Operation

Warning: Applying the workpiece to the right side of the disc could cause workpiece to fly up (kickback) and result in an injury.

Please take note of the disc rotation (counter clock-wise) and only work on the left side of the disc. (See Fig. 08)

Applying the workpiece to the left side of the disc will cause downward pressure against the table.

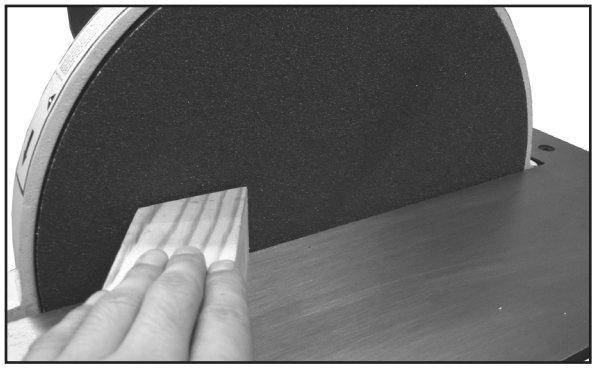


Fig. 08

Bevel Sanding

The work table can be tilted from -45 to +45 degrees for bevel sanding. Loosen the table lock knob and tilt the worktable to desired angle as shown. Retighten table lock knob. (See Fig. 09)

Warning: To avoid jamming the workpiece or fingers between the table and sanding surface, the table should repositioned on the table support to retain a maximum of 1/16” distance between sanding surface and table.

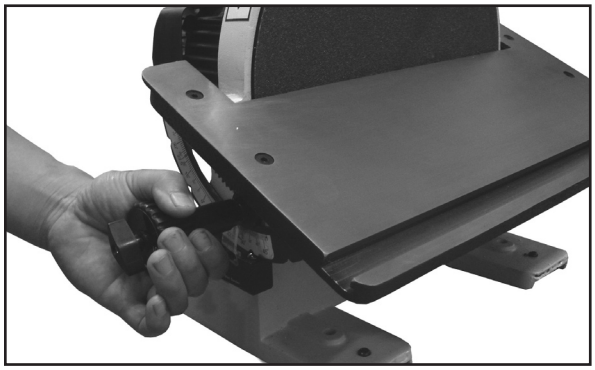


Fig. 09

Sanding Small End Surfaces on the Sanding Disc

Note: Use of a miter gauge is recommended for this operation.

Always move the work across left side of center on the sanding disc face as shown. (See Fig. 10)

Warning: Applying the workpiece to the right side of the disc could cause workpiece to fly up (kickback) and result in an injury.

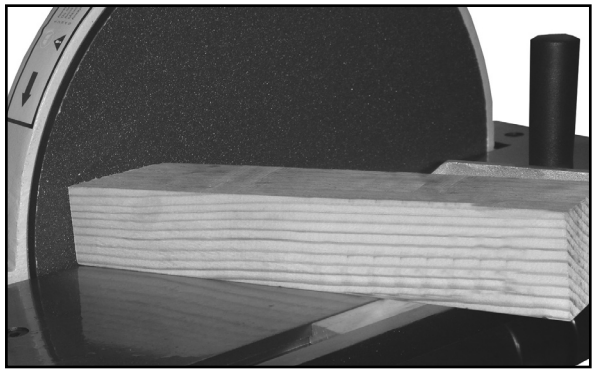


Fig. 10

Electrical Requirements

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor, with insulation having an outer surface that is green with or without yellow stripes, is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only three wire extension cords that have three-prong grounding plugs and three-pole receptacles that accept the tool's plug.*

Repair or replace a damaged or worn cord immediately.

This tool is intended for use on a circuit that has an outlet that looks the one illustrated in Figure A below. The tool has a grounding plug that looks like the grounding plug as illustrated in Figure A below. A temporary adapter, which locks like the adapter as illustrated in Figure B below, may be used to connect this plug to a two-pole receptacle, as shown in Figure B if a properly grounded outlet is not available.** The temporary adapter should only be used until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear or tab, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box.

* Canadian electrical codes require extension cords to be certified SJT type or better.
** Use of an adapter in Canada is not acceptable.

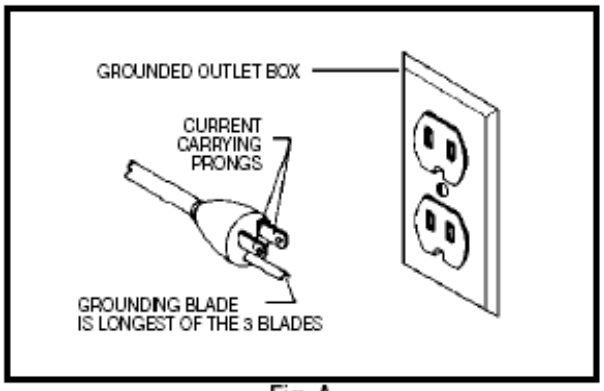


Fig. A

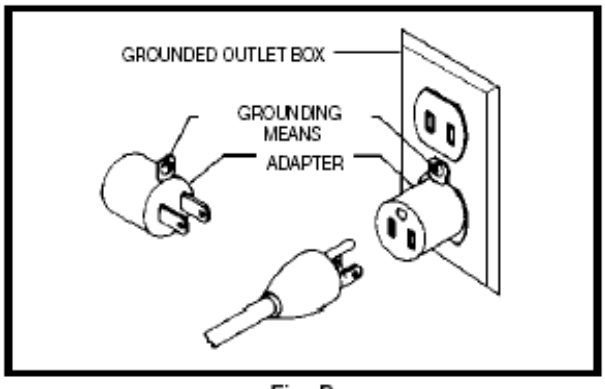
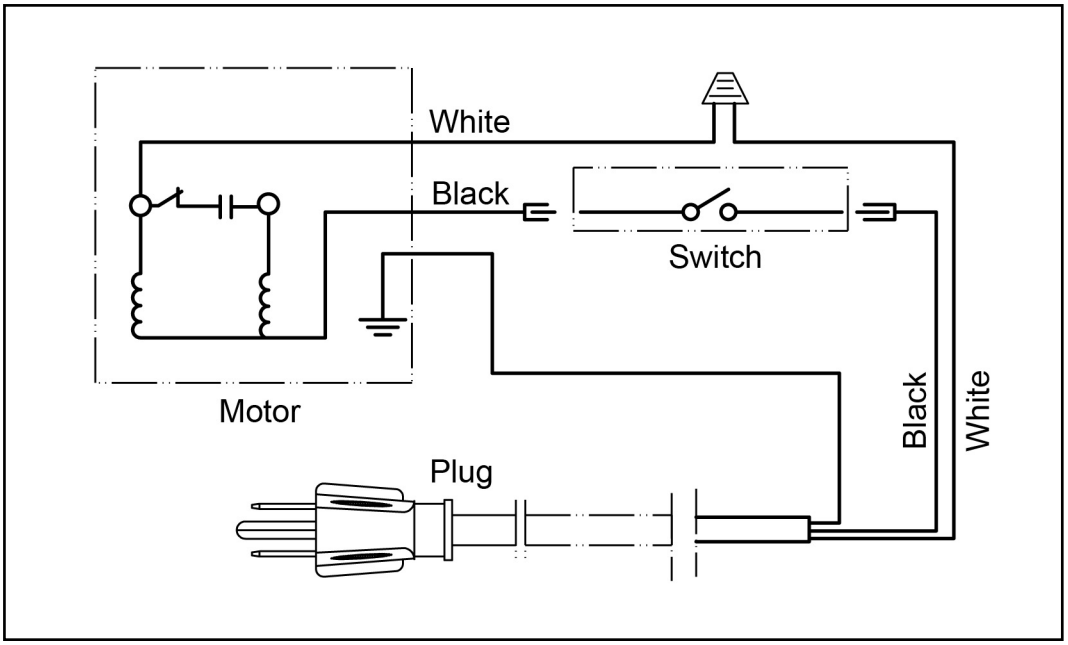


Fig. B

Troubleshooting

Trouble	Possible Cause	Solution
Sander will not start	1. Sander unplugged from wall or motor 2. Fuse blown or circuit breaker tripped 3. Cord damaged	1. Check all plug connections 2. Replace fuse or reset circuit breaker 3. Replace cord
Sanding disc does not come up to speed	1. Extension cord too light or too long 2. Low current	1. Replace with adequate size and length cord 2. Contact a qualified electrician
Machine vibrates excessively	1. Stand or base on uneven surface	1. Adjust stand or base so that it rests evenly on the floor 2. Bolt down
Sanded edge not square	1. Table not square to sanding disc	1. Use a square to adjust table to sanding disc
Sanding marks on wood	1. Work held still 2. Wrong grit sanding disc 3. Feed pressure too great 4. Sanding against the grain	1. Keep workpiece moving 2. Use coarser grit for stock removal and fine grit for finish sanding. 3. Never force workpiece 4. Sand with the grain

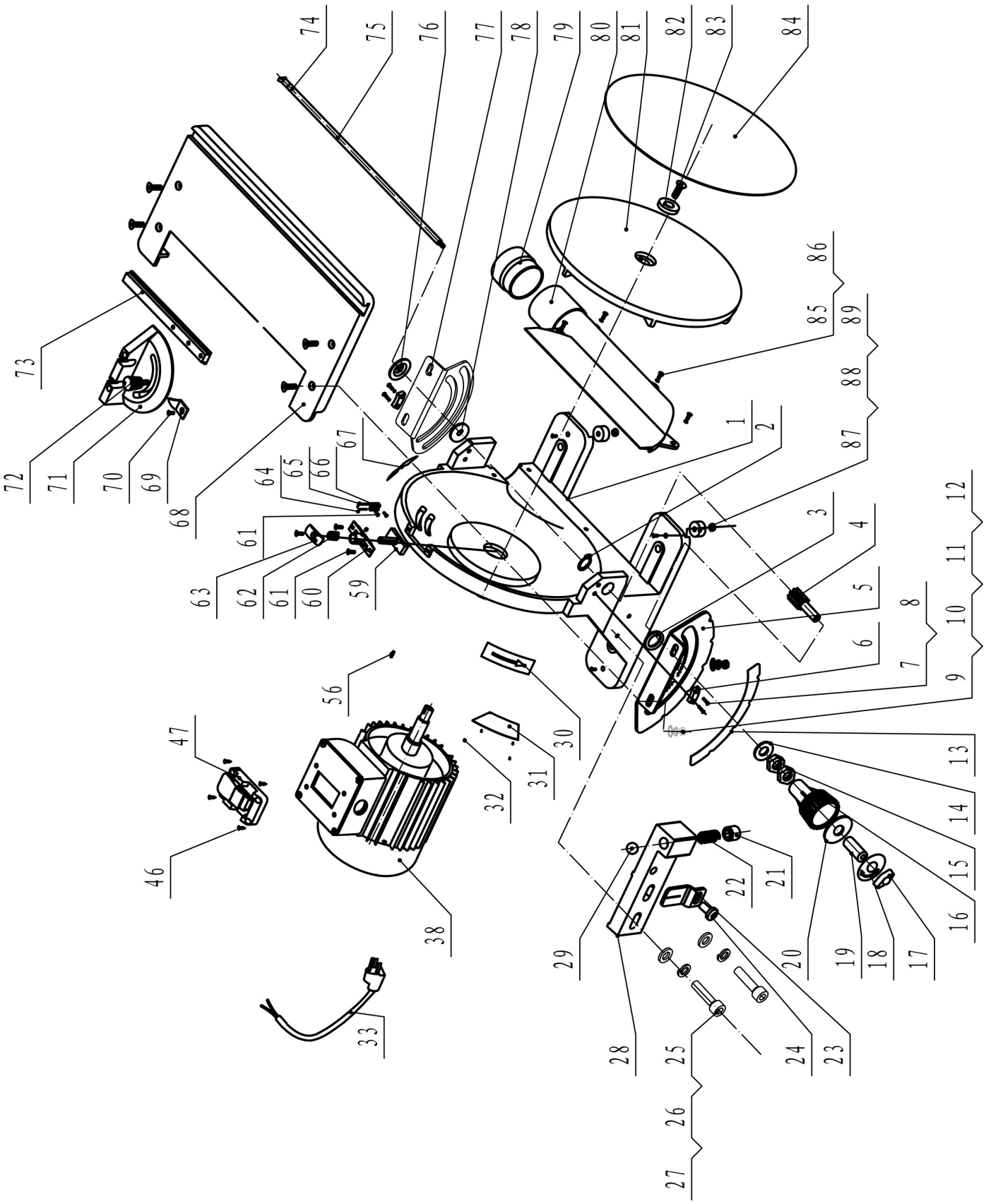
Wiring Diagram



Parts List

Key No.	Part No.	Description
1	JL63011001	Base
2	CLP17GB894D1B	Retaining ring
3	JL63020003	Washer
4	JL63022001	Gear shaft
5	JL63021002	Front trunnion
6	JL63011003	Guide block
7	M5X20GB70D1B	Bolt
8	WSH5GB93B	Spring washer
9	M6X20GB70D3B	Screw
10	WSH6GB63D1B	Washer
11	WSH6GB93B	Spring washer
12	M6GB6170B	Hex nut
12	JL63070004	Scale
14	WSH10GB96D1B	Washer
15	M10GB6170B	Hex nut
16	JL63022002	Adjusting handle
17	JL63022005	Lock knob
18	JL63070005	Lock label
19	JL63022004	Adjusting tube
20	JL63022003	Handle cap
21	M10X8GB77B	Set screw
22	JL63010002	Spring
23	JL63010004	Pointer
24	M5X10GB818B	Screw
25	M6X25GB70D1B	Bolt
26	WSH6GB95B	Washer
27	WSH6GB93B	Spring washer
28	JL63010001	Mounting base
29	JL63010003	Ball 8mm
30	JL63070002	Rotate label
31	JL63070001	Warning label
32	RVT2X6GB827	Rivet
33	U2318200-411	Cable
38	JL63030004	Motor
46	ST3D5X16GB845Z	Screw
47	HY18-32	Switch
56	PLN5X5X25GB1096	Key
59	JL63012100	Brake Asm.
60	JL63012001	Brake bracket
61	M4X8GB70D3B	Screw
62	JL63012002	Brake spring
63	JL63012003	Brake lever
64	WRN2D5GB5356B	L wrench 2.5
65	WRN4GB5356B	L wrench 4
66	JL63011004	Tool holder
67	JL63070003	Nameplate
68	JL63021001	Table
69	JL60040004	Pointer
70	M5X6GB818B	Screw
71	JL22062001	Miter gauge body
72	JL60040003	Lock knob
73	JL63040001	Guide block
74	SLG5X1D8GB3452D1	"O" rubber ring
75	JL63020001	Lock shaft
76	JL63020002	Washer
77	JL63021003	Rear trunnion
78	WSH6GB96D1B	Washer
79	JL63010006	Dust port
80	JL63010005	Plastic shield
81	JL63010007	Disc body
82	JL63010008	Washer
83	M6X16GB70D3B	Screw
84	JL63010009	Sand paper
85	M5X16GB818B	Pan head screw
86	WSH5GB862D2B	Dentiform washer
87	M6X16GB818B	Pan head screw
88	JL63011002	Rubber washer
89	M6GB6172B	Hex. Nut

Parts Explosion



RIKON POWER TOOLS

5-Year Limited Warranty

RIKON Power Tools, Inc. (“Seller”) warrants to only the original retail consumer/purchaser of our products that each product be free from defects in materials and workmanship for a period of five (5) years from the date the product was purchased at retail. This warranty may not be transferred.

This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs, alterations, lack of maintenance or normal wear and tear. Under no circumstances will Seller be liable for incidental or consequential damages resulting from defective products. All other warranties, expressed or implied, whether of merchantability, fitness for purpose, or otherwise are expressly disclaimed by Seller. This warranty does not cover products used for commercial, industrial or educational purposes.

This limited warranty does not apply to accessory items such as blades, drill bits, sanding discs or belts and other related items.

Seller shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special, or consequential damages arising from the use of our products.

To take advantage of this warranty proof of purchase documentation, which includes date of purchase and an explanation of the complaint, must be provided.

The Seller reserves the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever.

To take advantage of this warranty, please fill out the enclosed warranty card and send it to:
RIKON Warranty
16 Progress Rd
Billerica, MA. 01821

The card must be entirely completed in order for it to be valid. If you have any questions please contact us at 877-884-5167 or warranty@rikontools.com.

For more information:
16 Progress Rd.
Billerica, MA. 01821

877-884-5167/978-528-5380
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